NC/QC/YPD/SIP-05/2018-19/DP-C6

Date: 06-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**157 min**	Shall not be less than 30 min
2	Final setting time	**268min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.16 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.11 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results)	**28.65 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2018-19/DP-PCC5 **Date: 06-04-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**68.35**	0 -20	30- 70
10mm	**19.05**	0 -5	10- 35
4.75mm	**4.25**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.35**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.15**	60-95	75-100	85-100	
01.18	**71.05**	30-70	55-90	75-100	
600.mic	**47.65**	15-34	35-59	60-79	
300.mic	**18.25**	5-20	8-30	12-40	
150.mic	**7.50**	0-10	0-10	0-10	

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NC/QC/YPD/SIP-05/2018-19/DP-C7

Date: 09-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**154 min**	Shall not be less than 30 min
2	Final setting time	**269 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.98 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.07mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days.(average of three results)	**28.76 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2018-19/DP-FA2

Date: 09-04-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**86.10**	60-95	75-100	85-100	
01.18	**73.80**	30-70	55-90	75-100	
600. mic	**54.05**	15.34	35-59	60-79	
300.mic	**24.45**	5-20	8-30	12-40	
150.mic	**7.85**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001.	**15.35 %**	-----
2	Silt Content	----	**0.54%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/YPD/SIP-05/2018-19/DP-CA2 Date: 09-04-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.35	85-100	90 - 100
10 mm	38.55	0 - 20	25 - 55
4.75 mm	4.05	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.18 %	Not to exceed 25 %
2.	Crushing value	26.64%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YPD/SIP-05/2018-19/DP-CB4 Date: 19-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-04-18	19-04-18	07	22500	370	16.44	**16.37**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	355	15.78	

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NC/QC/YPD/SIP-05/2018-19/DP-CB5 Date: 20-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-04-18	20-04-18	07	22500	370	16.44	**16.96**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	390	17.33	

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NC/QC/YPD/SIP-05/2018-19/DP-CB6 Date: 23-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
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Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-04-18	23-04-18	07	22500	395	17.56	**17.19**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	380	16.89	

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NC/QC/YPD/SIP-05/2018-19/DP-CB7 Date: 24-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-04-18	24-04-18	07	22500	400	17.78	**17.41**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	390	17.33	

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NC/QC/YPD/SIP-05/2018-19/DP-CB8 Date: 25-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-18	25-04-18	07	22500	385	17.11	**16.74**
	002	"	"	"	"	375	16.67	
	003	"	"	"	"	370	16.44	

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